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DAWN JANELLE AT			LAM, ANN Y	
BIOMEASURI 27 MAPLE ST			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)		
Office Action Summary		09/832,273	CHERIF-CHEIKH	1, ROLAND	
		Examiner	Art Unit		
		Ann Y. Lam	1641		
Period fo	The MAILING DATE of this communication Reply	on appears on the cover sh	eet with the correspondence a	ddress	
A SHO WHIC - Exter after - If NO - Failur Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communication period for reply is specified above, the maximum statutor are to reply within the set or extended period for reply will, the pely received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMICFR 1.136(a). In no event, however tion. y period will apply and will expire SIX by statute, cause the application to be	MUNICATION. The may a reply be timely filed MONTHS from the mailing date of this of the come ABANDONED (35 U.S.C. § 133).	,	
Status					
2a) <u></u>	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for a closed in accordance with the practice up	This action is non-final. allowance except for formation	•	e merits is	
Dispositi	on of Claims				
5)□ 6)⊠ 7)□	Claim(s) <u>6-8 and 22-27</u> is/are pending ir 4a) Of the above claim(s) is/are w Claim(s) is/are allowed. Claim(s) <u>6-8 and 22-27</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction	ithdrawn from consideration			
Applicati	on Papers				
10)	The specification is objected to by the Ex The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	accepted or b) object to the drawing(s) be held in a correction is required if the d	abeyance. See 37 CFR 1.85(a). rawing(s) is objected to. See 37 C		
Priority u	nder 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
	e(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-9		erview Summary (PTO-413) per No(s)/Mail Date		
3) Inform	nation Disclosure Statement(s) (PTO-1449 or PTO No(s)/Mail Date	/SB/08) 5) 🔲 Not	ice of Informal Patent Application (PT er:	O-152)	

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 1, 2005 has been entered.

Claim Objections

1. Claim 24 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Claim 24 only recites "wherein the housing contains the liquid or semi-solid composition" and is dependent from claim 23, which recites the same limitations. Thus, claim 24 does not further limit claim 23.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 6-8 and 22-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 6, line 12, recites "the plunger". It is not clear whether "the plunger" refers to "a plunger" in line 9, or "a septum plunger" in line 11. (Likewise, the terms "the plunger" in lines 14, 18, 21 and 22 of claim 6, as well as claim 8, line 2, claim 22, line 2, and claim 25, line 2, are vague because it is not clear whether 'the plunger" refers to "a plunger" in line 9 or "a septum plunger" in line 11.) Applicant should use terms such as "first plunger" and "second plunger" to overcome this rejection. For examination purposes, the limitation "the plunger" in claim 6, line 12 (and subsequent lines and claims) are interpreted to refer to the plunger of line 9.

Claim 25 recites the limitation "the movement" in line 2. There is insufficient antecedent basis for this limitation in the claim. (The word "the" should be deleted.)

(Claims 7, 23, 24, 26, and 27 are rejected under 112, second paragraph, because they depend from one of the claims that are vague and indefinite as mentioned above.)

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Double Patenting

3. Claims 6-8, 22-24 and 27 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 3 and 4 of U.S. Patent No. 5.695,463 in view of Scherer et al., 2,460,039.

Cherif-Cheikh '463 discloses the invention substantially as claimed (see claims 1, 3 and 4 of patent '463.) More specifically, patent '463 teaches:

a hollow housing (i.e., "main body member", in col. 4, line 4) capable of containing a combined liquid and a dry drug composition (col. 4, line 32);

a hollow needle (col. 4, line 4);

a plunger (col. 4, line 5);

a hollow sleeve (col. 4, line 8) slidably connected to the distal end of the housing and arranged to cover the needle prior to injection, to retract into the housing during injection and to cover the needle after the injection (col. 4, lines 8-17);

and wherein the device is designed such that when the sleeve is pressed against the subject, the sleeve retracts into the housing thereby allowing the needle to penetrate into the subject (col. 4, lines 10-13).

However, patent '463 does not teach a septum plunger slidably arranged within the housing between the plunger and the distal end of the housing, said septum plunger being configured to isolate the liquid and/or dry drug composition between the septum plunger and the distal end of the plunger; wherein the hollow sleeve contacts said septum plunger as said septum plunger is displaced by said plunger towards the distal

end of the housing; and when the plunger is pushed into the housing, the proximal end of the needle pierces the septum plunger thereby exposing the proximal end of the needle to the previously isolated composition and the composition is pushed from the housing into and through the needle and into the subject.

However, Scherer et al. teach a syringe wherein the medicament is kept sterile until the syringe is put into use by providing a slidable piston (30) which seals and contains the medicament prior to use and puncture by a rear end of a double ended needle (34), (col. 1, lines 15-33).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a slidable piston and double ended needle as taught by Scherer et al. in place of the means to release the medicament (i.e., members 16 and 26) in the invention of patent '463 because Scherer et al. teaches that the configuration with the slidable piston and double ended needle provides the advantage of sealing the medicament and thereby maintaining sterility of the medicament prior to use. (The slidable piston taught by Scherer et al. is considered the claimed septum plunger.) Such modification of patent '463 in view of Scherer et al. permits the septum plunger to contact the sleeve of patent '463 as the septum plunger is displaced by the plunger towards the distal end of the housing; and when the plunger is pushed into the housing, the proximal end of the needle pierces the septum plunger thereby exposing the proximal end of the needle to the previously isolated composition, wherein the composition is pushed from the housing into and through the needle and into the subject (as claimed by Applicant). Also, as to claims 23 and 24, Scherer et al. teach

that the housing contains the liquid composition (col. 1, line 16). As to claim 27, the septum plunger contains a bore (40) which the needle pierces the bore in the septum plunger during use of the injection device (see col. 3, lines 41-44, and see fig. 2 and 3).

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As to the following claims, patent '463 teaches the limitations as follows.

As to claim 7, the proximal end of the housing comprises a flange (see claim 4 of '463).

As to claim 8, the proximal end of the plunger comprises a flange (see claim 3 of '463).

As to claim 22, the device is further configured such that when the composition is pushed out of the housing, the plunger moves the sleeve out of the housing to cover the needle (col. 4, line 15).

4. Claim 25 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 5,695,463 in view of Scherer et al., 2,460,039, as applied to claim 6 above, and further in view of Whitley, 5,399,170.

Cherif-Cheikh '463 in view of Scherer discloses the invention substantially as claimed (see above with respect to claim 6), except for a releasable lock to inhibit the movement of the plunger into the housing.

However, Whitley '170 discloses a syringe with a protective sheath, and further discloses a releasable lock in order to prevent movement of the plunger prior to use, (see column 3, lines 6-17). It would have been obvious to one of ordinary skill in the art

at the time the invention was made to provide a releasable lock as taught by Whitley on the Cherif-Cheikh '463 syringe, as it would be desirable to prevent movement of the plunger prior to use.

5. Claim 26 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claim 1 of U.S. Patent No. 5,695,463 in view of Scherer et al., 2,460,039, as applied to claim 6 above, and further in view of Hutson, 5,242,416.

Patent '463 in view of Scherer et al. teach the invention substantially as claimed (see above with respect to claim 6), except for a removable cap which covers the sleeve. Hutson however teaches this limitation.

Hutson discloses a syringe having a retractable sleeve (206) arranged to cover the needle. Hutson further discloses a cap (62 or 250) and teaches that the needle is protected by the cap (see column 8, lines 12-13) and that the cap may be placed on the sheath to protect the needle temporarily prior to additional use, where intermittent injections are required, for example, and the cap may be attached after use and the entire assembly may be disposed.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a removable cap as taught by Hutson on the sleeve of the syringe as taught by patent '463 in view of Scherer et al. because Hutson teaches that providing a cap on a sleeve (or sheath) protects the needle before, during or after use.

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Response to Arguments

Applicant's arguments with respect to the above claims have been considered but are moot in view of the new ground(s) of rejection. (Applicant's amendment overcame the Tischlinger reference because the Tischlinger reference does not teach that the sleeve is capable of contacting a plunger as claimed by Applicant.)

Also, on page 4, Applicant objects to the finality of the previous Office action.

Applicant submits that since the prior amendment did not "necessitate the new ground of rejection" and since no information disclosure statement was filed during the period set forth in 37 CFR 1.97(c), the finality of the action was premature. The Office maintains that the finality of the previous Office action was appropriate because the new amendments to the claims substantially changed the scope of the claims and thus required new search and consideration.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ann Y. Lam whose telephone number is 571-272-0822. The examiner can normally be reached on M-Sat 11-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long Le can be reached on 571-272-0823. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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